

RESULT 9
 US-09-641-319D-73
 ; Sequence 73, Application US/09641319D
 ; GENERAL INFORMATION:
 ; APPLICANT: Slater, Michael R.
 ; APPLICANT: Huang, Fen R.
 ; APPLICANT: Hartnett, James R.
 ; TITLE OF INVENTION: Mutant TNE Polymerases
 ; FILE REFERENCE: PRMG-04578
 ; CURRENT APPLICATION NUMBER: US/09/641,319D
 ; CURRENT FILING DATE: 2000-08-18
 ; PRIOR APPLICATION NUMBER: 09/385,986
 ; PRIOR FILING DATE: 1999-08-30
 ; PRIOR APPLICATION NUMBER: 08/484,661
 ; PRIOR FILING DATE: 1995-06-07
 ; NUMBER OF SEQ ID NOS: 75
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 73
 ; LENGTH: 928
 ; TYPE: PRT
 ; ORGANISM: Escherichia coli
 US-09-641-319D-73

Query Match 100.0%; Score 4727; DB 26; Length 928;
 Best Local Similarity 100.0%;
 Matches 928; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MVQIQPNPLILVDGSSYLYRAYHAFPLTNSAGEPTGAMYGVNLMLRSLIMQYKPTHAAV	60
Db	1	MVQIQPNPLILVDGSSYLYRAYHAFPLTNSAGEPTGAMYGVNLMLRSLIMQYKPTHAAV	60
Qy	61	VFDAKGKTFRDELFEHYKSHRPPMPDDLRAQIEPLHAMVKAMGLPLLAVSGVEADDVIGT	120
Db	61	VFDAKGKTFRDELFEHYKSHRPPMPDDLRAQIEPLHAMVKAMGLPLLAVSGVEADDVIGT	120
Qy	121	LAREAEKAGRPLVLISTGDKDMAQLVTPNITLINTMTNTILGPEEVVNKYGVPELIIIDFL	180
Db	121	LAREAEKAGRPLVLISTGDKDMAQLVTPNITLINTMTNTILGPEEVVNKYGVPELIIIDFL	180
Qy	181	ALMGDSSDNIPGVPVGVEKTAQALLQGLGGLDTLYAEPEKIAGLSFRGAKTMAAKLEQNK	240
Db	181	ALMGDSSDNIPGVPVGVEKTAQALLQGLGGLDTLYAEPEKIAGLSFRGAKTMAAKLEQNK	240
Qy	241	EVAYLSYQLATIKTDVELELTCEQLEVVQQAEEELGLFKKYEFKRWATADVEAGKWLQAK	300
Db	241	EVAYLSYQLATIKTDVELELTCEQLEVVQQAEEELGLFKKYEFKRWATADVEAGKWLQAK	300
Qy	301	GAKPAKPQETSVADAEPEVTATVISYDNYVTILDEETLKAWIAKLEKAPVFAFDTETDS	360
Db	301	GAKPAKPQETSVADAEPEVTATVISYDNYVTILDEETLKAWIAKLEKAPVFAFDTETDS	360
Qy	361	LDNISANLVGLSFAIEPGVAAYIPVAHDYLDAPDQISRERALELLKPLLEDEKALKVQGN	420
Db	361	LDNISANLVGLSFAIEPGVAAYIPVAHDYLDAPDQISRERALELLKPLLEDEKALKVQGN	420
Qy	421	LKYDRGILANYGIELRGIAFDTMLESYILNSVAGRHMDSLAERWLKHKHTITFEEIAGKG	480

Db 421 LKYDRGILANYGIELRGIAFDTMLESYILNSVAGRHMDSLAERWLKHKTTITFEEIAGKG 480

Qy 481 KNQLTFNQIALEEAGRYAAEDADVTLLQLHLKMWPDLQKHKGPLNVFENIEMPLVPVLSRI 540
 |||

Db 481 KNQLTFNQIALEEAGRYAAEDADVTLLQLHLKMWPDLQKHKGPLNVFENIEMPLVPVLSRI 540

Qy 541 ERNGVKIDPKVLHNNHSEELTLRLAELEKKAHEIAGEEFNLSSTKQLQTLFEQGGIKPLK 600
 |||

Db 541 ERNGVKIDPKVLHNNHSEELTLRLAELEKKAHEIAGEEFNLSSTKQLQTLFEQGGIKPLK 600

Qy 601 KTPGGAPSTSEEVLEELALDYLPKVVILEYRGLAKLKSTYTDKPLMINPKTGRVHTSYH 660
 |||

Db 601 KTPGGAPSTSEEVLEELALDYLPKVVILEYRGLAKLKSTYTDKPLMINPKTGRVHTSYH 660

Qy 661 QAVTATGRLSSTDPNLQNPVRNEEGRRIRQAFIAPEDYVIVSADYSQIELRIMAHLSRD 720
 |||

Db 661 QAVTATGRLSSTDPNLQNPVRNEEGRRIRQAFIAPEDYVIVSADYSQIELRIMAHLSRD 720

Qy 721 KGLLTAFAGKDIHRATAAEVFGLEPVTSEQRSSAKAINFGLIYGMSAFGLARQLNIP 780
 |||

Db 721 KGLLTAFAGKDIHRATAAEVFGLEPVTSEQRSSAKAINFGLIYGMSAFGLARQLNIP 780

Qy 781 RKEAQKYMPLYFERYPGVLEYMERTRAQAKEQGYVETLDGRRRLYPDIKSSNGARRAAAE 840
 |||

Db 781 RKEAQKYMPLYFERYPGVLEYMERTRAQAKEQGYVETLDGRRRLYPDIKSSNGARRAAAE 840

Qy 841 RAAINAPMQGTAADIKRAMIAVDWLQAEQPRVRMIMQVHDELVEVHKDDVDVAKQI 900
 |||

Db 841 RAAINAPMQGTAADIKRAMIAVDWLQAEQPRVRMIMQVHDELVEVHKDDVDVAKQI 900

Qy 901 HQLMENCTRLDVPLLEVGSGENWDQAH 928
 |||

Db 901 HQLMENCTRLDVPLLEVGSGENWDQAH 928

EAST SEARCH:

BRS L1 2282 t7 adj DNA adj polymerase USPAT 2010/09/12 12:43

BRS L2 4 11 and (enhanced adj mismatch adj discrimination) USPAT 2010/09/12
 12:44

BRS L3 63073 polymerase USPAT 2010/09/12 12:45

BRS L4 661 13 and (t7.clm.) USPAT 2010/09/12 12:45

BRS L5 32 14 and (reduced.clm.) USPAT 2010/09/12 12:46

BRS L6 11 14 and (enhanced.clm.) USPAT 2010/09/12 12:46